

CLAIMS

1. A combustion system comprising a combustion chamber body to which a fluid material as a blend of a combustible material admixed with water, under interception of air supply, is introduced to cause thermal decomposition of water in said fluid material and combustion of the combustible material with discharge of the gas after combustion, and a fluid supply section for introducing the aforementioned fluid material to the aforementioned combustion chamber body.
2. The combustion system according to claim 1, wherein a gas recovery section for recovering the gas exhausted from said combustion chamber body is provided.
3. The combustion system according to claim 2, wherein said gas recovery section is provided with a centrifugal gas separator for separating and extracting gas by the type.
4. The combustion system according to claim 1, 2 or 3, wherein an outer chamber body surrounding said combustion chamber body is provided, a lower opening for discharging an ash content in the combustion chamber body is provided at the lower part of said combustion chamber body, a discharging passage section for discharging the ash content from the lower opening to the outside of said outer chamber body is provided, a space between said outer chamber body and the combustion chamber body is constituted as a coolant fluid passage through which a coolant fluid passes to cool said discharging passage section, an inlet port through which the coolant fluid flows in is provided at the lower part of the outer chamber body, and an outlet port through which the coolant fluid flows out is provided at the upper part of the outer chamber body.
5. The combustion system according to claim 4, wherein a water separator for separating the water content from the ash content discharged from said discharging passage section is provided.
6. The combustion system according to claim 1, 2, 3, 4 or 5, characterized by: providing an outer chamber body surrounding the aforementioned combustion chamber body in such a fashion that the aforementioned combustion chamber body can be driven to rotate against the aforementioned outer chamber body; providing a lower opening which intercommunicates with the inside of said combustion chamber body for introducing the fluid material, to the lower part of the aforementioned

combustion chamber body; providing an upper opening which intercommunicates with the aforementioned combustion chamber body for exhausting the exhaust, to the upper part of the aforementioned combustion chamber body; constituting the aforementioned combustion chamber body of an outer cylinder and an inner cylinder; and constituting the inner cylinder of the aforementioned combustion chamber body of a heat-resistant fluid forming the inner wall of the combustion chamber body as being pressed against the outer cylinder by the centrifugal force of the aforementioned combustion chamber body.

7. The combustion system according to claim 6, wherein the heat-resistant fluid forming the inner cylinder of said combustion chamber body is constituted of ceramic melted by combustion of the combustible material in the combustion chamber body and pressed against the outer cylinder by the centrifugal force.

8. The combustion system according to claim 1, 2, 3, 4, 5, 6 or 7, wherein an ignition device for igniting the combustible material supplied to said combustion chamber body is provided.

9. The combustion system according to claim 8, wherein said ignition device is constituted of a high-frequency heater body provided in said combustion chamber body.

10. The combustion system according to claim 1, 2, 3, 4, 5, 6, 7, 8 or 9, wherein a fluid storage tank for storing the fluid material as a blend of said combustible material admixed with water is provided.

11. The combustion system according to claim 10, wherein a water supply section for supplying water into said fluid storage tank is provided and a mixer for agitating the fluid material in the fluid storage tank is provided in the fluid storage tank.

12. The combustion system according to claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11, wherein said fluid supply section is provided with a transient tower through which said fluid material passes, a high-pressure pump provided at the lower part of the transient tower for forcibly feeding said fluid material to the upper part of the transient tower, and an ejection body connected to the upper part of said transient tower through a junction pipe for ejecting the fluid material forcibly fed into said combustion chamber body into the combustion chamber body.

13. The combustion system according to claim 12, wherein a magnetic field generator attached to said junction pipe for applying a magnetic field to the fluid material flowing through the junction pipe is provided.

14. The combustion system according to claim 12 or 13, wherein an exhaust pipe through which a gas exhausted from the upper opening provided at the upper part of said combustion chamber body passes is provided, and the exhaust pipe is provided with a spiral pipe disposed in said transient tower from the upper part thereof to the lower part thereof for performing cross heat exchange between the gas in the exhaust pipe and the fluid material in the transient tower.

15. The combustion system according to claim 14, wherein a fluid storage tank for storing the fluid material as a blend of said combustible material admixed with water is provided, and the exhaust pipe on the downstream side of said spiral pipe is disposed so that it passes through said fluid storage tank.

16. The combustion system according to claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 or 15, wherein an exhaust pipe through which a gas exhausted from the upper opening provided at the upper part of said combustion chamber body passes is provided, and a power turbine is provided in a path of the exhaust pipe.

17. The combustion system according to claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 or 16, wherein an oxygen supplier for supplying oxygen into said combustion chamber body is provided.

18. The combustion system according to claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 or 17, wherein a hydrogen supplier for supplying hydrogen into said combustion chamber body is provided.

19. The combustion system according to claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 or 18, wherein a neutralizer injector for filling a neutralizer for gasses other than oxygen, hydrogen and carbon dioxide is provided in said combustion chamber body.